

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1-2. (canceled)

Claim 3. (currently amended) A purified nucleic acid molecule encoding a coccidian CKI protein ~~of claim 2~~, wherein said coccidian ~~*Eimeria*~~ CKI protein is selected from the group consisting of a CKI protein of the species *Eimeria tenella* and a CKI protein of the species *Toxoplasma gondii*.

Claim 4. (currently amended) An expression vector for expressing ~~an *E. tenella* a~~ coccidian CKI protein in a recombinant host cell wherein said expression vector comprises a nucleic acid molecule of claim 3.

Claim 5. (currently amended) A recombinant host cell which expresses ~~an *E. tenella* a~~ coccidian CKI protein wherein said host cell contains the expression vector of claim 4.

Claim 6. (currently amended) A process of expressing ~~an *E. tenella* a~~ coccidian CKI protein in a recombinant host cell, comprising:
(a) transfecting the expression vector of claim 4 in a suitable host cell; and,
(b) culturing the host cells of step (a) under conditions which allow expression of said ~~*E. tenella*~~ coccidian CKI protein from said expression vector.

Claim 7-11. (canceled)

Claim 12. (original) A purified nucleic acid molecule encoding a coccidian CKI protein, wherein said protein comprises an amino acid sequence selected from the group consisting of SEQ ID NO:2, SEQ ID NO:4 and SEQ ID NO:6.

Claim 13. (original) An expression vector for expressing a coccidian CKI protein in a recombinant host cell wherein said expression vector comprises a nucleic acid molecule of claim 12.

Claim 14. (original) A recombinant host cell which expresses a coccidian CKI protein wherein said host cell contains the expression vector of claim 13.

Claim 15. (original) A process of expressing a coccidian CKI protein in a recombinant host cell, comprising:

- (a) transfecting the expression vector of claim 13 in a suitable host cell; and,
- (b) culturing the host cells of step (a) under conditions which allow expression of said coccidian CKI protein from said expression vector.

Claim 16. (original) An isolated nucleic acid molecule encoding a coccidian CKI protein, wherein said nucleic acid molecule comprises a nucleotide sequence selected from the group consisting of SEQ ID NO:1, SEQ ID NO:3 and SEQ ID NO:5.

Claim 17. (original) An expression vector for expressing a coccidian protein in a recombinant cell where in said expression vector comprises a nucleic acid molecule of claim 16.

Claim 18. (original) A recombinant host cell which expresses a coccidian CKI protein wherein said host cell contains the expression vector of claim 17.

Claim 19. (original) A process of expressing a coccidian CKI protein in a recombinant host cell, comprising:

- (a) transfecting the expression vector of claim 17 into a suitable host cell; and
- (b) culturing the host cells of step (a) under conditions which allow expression of said coccidian CKI protein from said expression vector.

Claim 20-25. (canceled)

Claim 26. (currently amended) A coccidian CKI protein substantially free from other proteins of claim 25, wherein said *Eimeria* coccidian CKI protein is selected from the group consisting of a CKI protein of the species *Eimeria tenella* and a CKI protein of the species *Toxoplasma gondii*.

Claim 27. (currently amended) A substantially purified ~~*E. tenella*~~ coccidian CKI protein of claim 26 which is a product of a DNA expression vector contained within a recombinant host cell.

Claim 28-30. (canceled)

Claim 31. (original) A substantially purified coccidian CKI protein which comprises an amino acid sequence selected from the group consisting of SEQ ID NO:2, SEQ ID NO:4 and SEQ ID NO:6.

Claim 32. (original) A substantially purified coccidian CKI protein of claim 31 which is a product of a DNA expression vector contained within a recombinant host cell.

Claim 33-34. (canceled)

Claim 35. (original) A method of identifying a test compound which modulates a coccidian CKI protein, comprising:

- (a) contacting a test compound with a coccidian CKI protein; and,
- (b) measuring the modulating effect of the test compound on said coccidian CKI protein.

Claim 36. (currently amended) A method of claim 35, wherein said coccidian CKI protein is of the species *Eimeria tenella* genus.

Claim 37. (currently amended) A method of claim 35, wherein said coccidian CKI protein is of the species *Toxoplasma gondii* genus.